

2006 Non-hazardous Waste (Garbage) Offloading in Alaska

Alaska Statute (AS) 46.03.475(e)(1) requires owners/operators of commercial passenger vessels¹ to submit a nonhazardous solid waste offloading and disposal (garbage) plan to the Department of Environmental Conservation (ADEC) prior to operating in Alaska's marine waters. As established by regulation (18 AAC 69.035), the garbage plan must describe the policies and procedures for offloading non-hazardous solid waste in Alaska or disposing such waste into Alaska marine waters. The plan, which is due annually by March 1 for the upcoming season, must also provide estimates of the amount of garbage that will be offloaded and disposed in Alaska's waters. After the season is completed, any deviations from the plan must be submitted to the ADEC by November 15 of each year. Some owners/operators also submit optional information on garbage offloaded or discharged outside Alaska (i.e., in Canada, Washington or California). Tables 1 and 2 summarize garbage offloading data submitted to the ADEC during the 2006 season. Ships that visited Alaska but are not in this table did not offload any garbage in Alaska this season.

Table 1: Large Ship 2006 Nonhazardous waste (Garbage) offload summary

| | 2006 Large Ship Offloads in Alaska (Required Information)* | | | | | | | Offloads Outside of Alaska (Information not Required) | |
|-------------------|--|------------------------|--------------------|--------------------|-------------------|--------------|--------------|---|-----------------|
| | | Garbage | Recyclables | | | | | | |
| <u>Operator</u> | <u>Vessel</u> | <u>Wet/Dry Garbage</u> | <u>Plastic</u> | <u>Cardboard</u> | <u>Glass</u> | <u>Paper</u> | <u>Misc.</u> | <u>Wet/Dry Garbage</u> | <u>Recycled</u> |
| Princess Cruise | Coral Princess | -- | -- | -- | -- | -- | -- | -- | -- |
| | Dawn Princess | -- | -- | -- | -- | -- | -- | -- | -- |
| | Diamond Princess | -- | -- | -- | -- | -- | -- | -- | -- |
| | Island Princess | -- | -- | -- | -- | -- | -- | -- | -- |
| | Regal Princess | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sapphire Princess | -- | -- | -- | -- | -- | -- | -- | -- |
| | Sun Princess | -- | -- | -- | -- | -- | -- | -- | -- |
| Royal Caribbean | Vision of the Seas | -- | -- | -- | -- | -- | -- | -- | -- |
| | Serenade of the Seas | -- | -- | -- | -- | -- | -- | -- | -- |
| | Radiance of the Seas | -- | -- | -- | -- | -- | -- | -- | -- |
| Celebrity Cruise | Infinity | -- | -- | -- | -- | -- | -- | -- | -- |
| | Summit | -- | -- | -- | -- | -- | -- | -- | -- |
| | Mercury | 529 m ³ | -- | -- | -- | -- | -- | -- | -- |
| Norwegian Cruise | Norwegian Star | -- | -- | -- | -- | -- | -- | -- | -- |
| | Norwegian Sun | -- | -- | -- | -- | -- | -- | -- | -- |
| | Norwegian Wind | -- | -- | -- | -- | -- | -- | -- | -- |
| Carnival Cruise | Carnival Spirit | 700 m ³ | -- | -- | -- | -- | -- | -- | -- |
| Kyma | Topaz | 35 m ³ | 5 m ³ | -- | -- | -- | -- | -- | -- |
| Mitsui OSK Line | Nippon Maru | -- | -- | -- | -- | -- | -- | -- | -- |
| Radisson | Seven Seas Mariner | -- | -- | -- | -- | -- | -- | -- | -- |
| Silversea Cruises | Silver Shadow | 139 m ³ | 190 m ³ | 260 m ³ | 33 m ³ | -- | -- | -- | -- |
| Holland America | Oosterdam | -- | -- | -- | -- | -- | -- | -- | -- |
| | Ryndam | -- | -- | -- | -- | -- | -- | -- | -- |
| | Statendam | -- | -- | -- | -- | -- | -- | -- | -- |
| | Veendam | -- | -- | -- | -- | -- | -- | -- | -- |
| | Volendam | -- | -- | -- | -- | -- | -- | -- | -- |
| | Westerdam | -- | -- | -- | -- | -- | -- | -- | -- |
| | Zaandam | -- | -- | -- | -- | -- | -- | -- | -- |
| | Zuiderdam | -- | -- | -- | -- | -- | -- | -- | -- |

¹ As defined in Alaska Statute (AS) 46.03.490(2)

Large ship offloads

Holland America Line

Holland America indicated in their pre-season plan that their ships would not offload garbage in Alaska, which was confirmed in their post season deviation report.

Royal Caribbean International

Royal Caribbean indicated in their preseason plan that their ships would not offload garbage in Alaska. Their post season deviation report confirmed that garbage was not offloaded in Alaska.

Celebrity Cruise Line

Celebrity indicated in their preseason plan that their ships would not offload any garbage in Alaska. The post season report included deviations from the garbage plan. Mercury did offload some waste in Alaska during the season (Table 1).

Norwegian Cruise Line

Norwegian indicated in its preseason plan that their ships would not offload garbage in Alaska, which was confirmed by their post season deviation report.

Princess Cruise Lines

Princess Cruise Lines indicated in their pre-season plan that their ships would not offload garbage in Alaska, which was confirmed in their post season deviation report.

Cruise lines companies operating only one vessel during the 2006 season

Silverseas Cruises and Carnival Cruise Lines each operated only one ship in Alaska. These vessels did offload garbage in Alaska, and the figures in Table 1 are from their post-season deviation reports. The Nippon Maru and Seven Seas Mariner did not offload in Alaska.

Table 2: Small Ship 2006 Nonhazardous waste (Garbage) offload summary

| | 2006 Small Ship Offloads in Alaska (Required Information) | | | | | | Offloads Outside of Alaska (Information not Required) | | |
|-----------------------------|---|--------------------|-------------------|--------------------|-------------------|-------|---|-----------------|----------|
| | Operator | Vessel | Garbage | Recyclables | | | | Wet/Dry Garbage | Recycled |
| Wet/Dry Garbage | | | Plastic | Cardboard | Glass | Paper | Aluminum | | |
| Cruise West | Spirit of 98 | 499 m ³ | -- | 340 Kg | 960 Kg | -- | -- | -- | -- |
| | Spirit of Alaska | 187 m ³ | -- | 127 Kg | 397 Kg | -- | -- | -- | -- |
| | Spirit of Columbia | 122 m ³ | -- | 913 Kg | 1556 Kg | -- | -- | -- | -- |
| | Spirit of Discovery | 137 m ³ | -- | 515 Kg | 724 Kg | -- | -- | -- | -- |
| | Spirit of Endeavor | 141 m ³ | -- | 1932 Kg | 1304 Kg | -- | -- | -- | -- |
| | Yorktown Clipper | 153 m ³ | -- | 2200 Kg | 1565 Kg | -- | -- | -- | -- |
| | Spirit of Oceanus | 97 m ³ | -- | 122 m ³ | 1723 Kg | -- | -- | -- | -- |
| Lindblad Expeditions | Sea Bird | 120 m ³ | 10 m ³ | 40 m ³ | 30 m ³ | -- | -- | -- | -- |
| | Sea Lion | 120 m ³ | 10 m ³ | 40 m ³ | 30 m ³ | -- | -- | -- | -- |
| CLAA | Bremen | 0 m ³ | -- | -- | -- | -- | -- | -- | -- |
| New World Ship | Clipper Odyssey | 5 m ³ | 14 m ³ | -- | -- | -- | -- | -- | -- |
| Alaska Marine Highway | Alaska Marine Highway Ferries | 346,545 Kgs | -- | -- | -- | -- | -- | -- | 7,211 Kg |
| American West Steamboat Co. | Empress of the North | 928 m ³ | -- | 1188 Kg | 770 Kg | -- | - | -- | -- |

Small ship offloads

All Lines

The garbage information in Table 2 for vessels operated by the Alaska Marine Highway System, Lindblad Expeditions, Cruise West, CLAA, New World Ship Management, and American West Steamboat Co are estimates taken from each operator's pre-season plans and verified from their deviation reports. Garbage log submittals are not required under state statute but we appreciate these vessel's detailed submittal.

Table 3: Amount of solid waste offloaded by cruise ships and state ferries in Alaska ports in 2006

| Port | Amount of Garbage Offloaded |
|--------------|-----------------------------|
| Juneau | 729 m ³ |
| Ketchikan | 35 m ³ |
| Kodiak | 10 m ³ |
| Nome | 4 m ³ |
| Unspecified* | 2,934 m ³ |
| Whittier | 200 m ³ |
| Total | 3,912 m³ |

* Ships are not required by regulation to report the amount disposed of at EACH port but the total needs to be included in their garbage plan. ADEC assumes the majority of the waste was offloaded in Juneau since Juneau is a frequent embarking/disembarking port.

Table 3 shows the amount in metric tons² of garbage and recyclables offloaded by commercial passenger vessels and state ferries in Alaska ports. The state ferries offload year-round in Juneau (215 tons) and Ketchikan (167 tons). These disposal amounts are not included in Table 3.

International agreements translate to Federal Law

Ships offload garbage according to the International Convention for the Prevention of Pollution from ships at sea treaty signed in 1973 and amended in 1978 (MARPOL 73/78)³. Nations that signed the treaty promulgated their own laws and regulations to enforce the treaty provisions. In the United States, US Federal Law 33 U.S.C. §§ 1901 and regulations 33 CFR 151.66-151.73 implementing MARPOL 73/78 prohibit the disposal of plastics or any garbage containing plastics into U.S. navigable waters, and allow disposal of non-plastic garbage into navigable waters as described in the placard⁴ below.

Save Our Seas

The discharge of all garbage into the ocean or navigable waters of the United States is prohibited under MARPOL 73/78. A person who knowingly violates MARPOL 73/78 commits a Class D felony punishable by imprisonment up to six years and a fine up to \$250,000 for an individual, or up to \$500,000 for an organization.

BoatUS
Boat Owners Association of the United States

We support this law. Please do your part while on board.
—YOUR CAPTAIN

Small 713021

| Distance from Shore | Illegal to Dump | Allowed Disposal |
|---|-----------------|---|
| LAKES, RIVERS, BAYS, SOUNDS, and 0-3 MILES FROM SHORE | ILLEGAL TO DUMP | Plastic, Rags, Glass, Food, Metal, Crockery, Dunnage, Lining & Packing, Materials That Float |
| 3-12 MILES | ILLEGAL TO DUMP | Plastic, Rags, Glass, Food*, Metal*, Crockery*, Dunnage, Lining & Packing, Materials That Float |
| 12-25 MILES | ILLEGAL TO DUMP | Plastic, Dunnage, Lining & Packing, Materials That Float |
| 25 MILES OR MORE | ILLEGAL TO DUMP | Plastic |

*unless ground smaller than one inch

PLACARDS ARE REQUIRED BY LAW for any boat 26 feet or more in length.

² A metric ton is one cubic meter, or 2205 pounds.

³ More information can be found on the federal Environmental Protection Agency website, <http://www.epa.gov/OWOW/OCPCD/marpol.html> or at <http://www.imo.org/home.asp>

⁴ 33 CFR 151.59 requires the owners of vessels 26' in length and above to place this placard on board the vessel.